

# THIR UNITED STRATES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Hegetable Seeds, Inc.

FIGURES, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS ARE ADJUGGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF RLAND VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT D BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### **TOMATO**

## 'PICUS'

In Testimone Thereof, I have hereunto set my hand and caused the seal of the Plant Intitly Protection Office to be affixed at the City of Washington, D.C. this ninth day of December, in the year two thousand and eight.

Berzin

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Colmand T. Schafe

REPRODUCE LOCALLY, include form number and da	ate on all reprodu	ctions	Form Approved - OMB No. 0581-0055								
U.S. DEPARTMEN AGRICULTURAL N SCIENCE AND TECHNOLOGY - PI	MARKETING SERV	/ICE	The following statements are made the Paperwork Reduction Act (PRA	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.							
APPLICATION FOR PLANT VAI (Instructions and information col	RIETY PROTECTION	ON CERTIFICATE	Application is required in order to de (7 U.S.C. 2421). Information is held	termine if a p I confidential	plant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).						
1. NAME OF OWNER			2. TEMPORARY DESIGNATION C	R 3. VA	RIETY NAME						
Seminis Vegetable Seeds, Inc.			XP 01429864								
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Cod	de, and Country)	5. TELEPHONE (include area code								
2700 Camino del Sol			(805) 647-1572	(805) 647-1572 PVPO NUMBER							
Oxnard, CA 93030-7967			6. FAX (include area code)								
			(805) 918-2545	FILING	3 DATE						
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, associated)		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION		mr 29, 2007						
Corporation		California	4 June 1962	''							
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	ERVE IN THIS APPLICATION. (First)	person listed will receive all papers)	F E E	FILING AND EXAMINATION FEES:						
Carol Miller	Sara E	Roeke		s	PATE 11 70 700 7						
Seminis Vegetable Seeds, Inc.		is Vegetable Seeds, Inc	C.	R E C	DATE 11-29-2007  CERTIFICATION FEE:						
37437 State Hwy 16		Box 97, NL-6700 AB		8	, 768.00						
Woodland, CA 95695		ningen, Netherlands		V E							
		_		D	DATE 10/21/08						
11. TELEPHONE (Include area code) (530) 669-6274	12. FAX (Include (530) 669-	•	13. E-MAIL carol.l.miller@semi	nis.com							
14. CROP KIND (Common Name)	16. FAMILY NA		18. DOES THE VARIETY CO	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)							
Tomato	Solanac	eae	YES NO								
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VAR	RIETY A FIRST GENERATION HYBRI	D? IF SO, PLEASE GIVE TH	E ASSIGNED	OUSDA-APHIS REFERENCE NUMBER FOR THE LATE THE GENETICALLY MODIFIED PLANT FOR						
Lycopersicon esculentum	YES	NO	COMMERICALIZATION.		STETTE GENERAL MODEL MODEL DE L'ANTI-						
19. CHECK APPROPRIATE BOX FOR EACH ATTA	CHMENT SUBMIT	TTED			EED OF THIS VARIETY BE SOLD AS A CLASS						
(Follow instructions on reverse)  a.	of the Median.		OF CERTIFIED SEED? ( YES (If "yes", ansi		83(a) of the Plant Variety Protection Act) and 22 below)						
	of the variety		21. DOES THE OWNER SPE		EED OF THIS VARIETY BE LIMITED AS TO						
——————————————————————————————————————	_1.	•	NUMBER OF CLASSES?	_							
· · · · · · · · · · · · · · · · · · ·	•		☐ YES ☑ NO  IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED								
d. Exhibit D. Additional Description of the			22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO								
e. Exhibit E. Statement of the Basis of the		ир	NUMBER OF GENERATIONS?								
f.		per propagated varieties, verification	YES NO								
that tissue culture will be deposited and	maintained in an a	approved public repository)	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.								
g.  Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Variety Protect		easurer of the United		FOUNDATION REGISTERED CERTIFIED  (If additional explanation is necessary, please use the space indicated on the reverse.)							
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	TED MATERIAL) OF, TRANSFER	OR A HYBRID PRODUCED RED, OR USED IN THE U. S. OR	24. IS THE VARIETY OR ANY INTELLECTUAL PROPER	COMPONE TY RIGHT (	NT OF THE VARIETY PROTECTED BY PLANT BREEDER'S RIGHT OR PATENT)?						
YES NO			✓ YES □ N	D							
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTA	FIRST SALE, DISP NCES. <i>(Please us</i>	POSITION, TRANSFER, OR USE se space indicated on reverse.)	IF YES, PLEASE GIVE CO REFERENCE NUMBER. (		E OF FILING OR ISSUANCE AND ASSIGNED pace indicated on reverse.)						
25. The owners declare that a viable sample of basi- for a tuber propagated variety a tissue culture w	c seed of the varie	ty has been furnished with application a public repository and maintained for	and will be replenished upon request in	n accordance	with such regulations as may be applicable, or						
The undersigned owner(s) is(are) the owner of the	nis sexually reprod	uced or tuber propagated plant variety	, and believe(s) that the variety is new,	distinct, unif	orm, and stable as required in Section 42, and is						
entitled to protection under the provisions of Secti Owner(s) is (are) informed that false representat			es.								
SIGNATURE OF OWNER		S	SIGNATURE OF OWNER	<del>-</del>	· · · · · · · · · · · · · · · · · · ·						
CarolorMille	$\mathcal{O}$										
NAME (Please print or type)  Carol L. Miller		N	IAME (Please print or type)								
CAPACITY OR TITLE	DATE		CAPACITY OR TITLE	DATE	· Armin Arm						
PVP Specialist		8-NN-07	and the second	E/11 E							
					100 m and 100 m						

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificates. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

Telephone: (301) 504-5518

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

FAX: (301) 504-5291

#200800039

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/isg/seed.htm.

#### ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

First Sales: United States 01-Dec-06; Canada 01-Dec-06

U.S. Patent Application (in process) will be filed prior to November 30, 2007.

\*\*Recording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

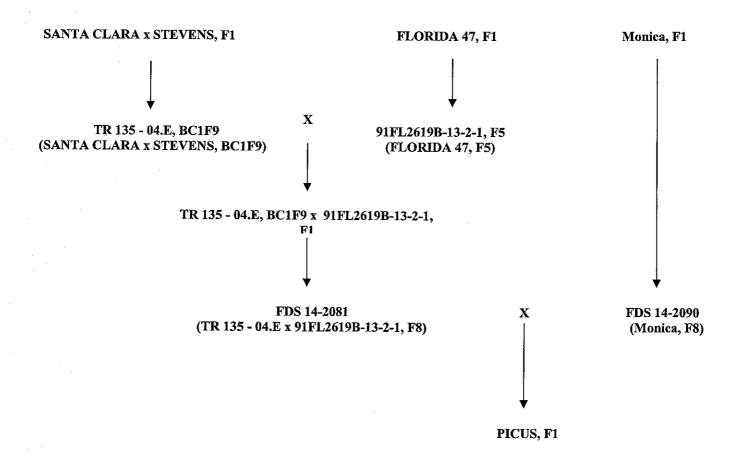
Instructions, searching existing data sources, gathering and maintaining the data needed, and competing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Origin and Breeding History of PICUS, Tomato

Tomato hybrid PICUS was developed by crossing FDR 14-2081 (seed parent) times FDR 14-2090 (pollen parent).



PICUS is a fresh market roma tomato hybrid variety with large, blocky roma-shaped fruit developed for the "Saladette" segment. The determinate type plants are medium-large sized, vigorous growing, and set fruit all the way to the top of the plant. Selection criteria for PICUS included plants which produce large, elongated cylindrical red fruit which set well in hot temperatures. resistance to Tomato Spotted Wilt Virus (TSWV), and plants that grow well in field conditions as found in the Eastern United States.

From observations made during the 2006 and 2007 growing seasons, PICUS was found to be uniform and stable within commercially acceptable limits. As is true with other tomato hybrids, a small percentage of variants can occur within commercially acceptable limits for many characteristics during the course of repeated multiplication. No genetic variants are known to occur and, to date, this hybrid has been observed to be completely uniform and stable for at least two generations.

# Statement of Distinctness for Tomato, PICUS

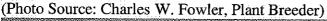
PICUS is described as a determinate Tomato Spotted Wilt Virus resistant Fresh Market Tomato hybrid in the 'Saladette' segment. The novelty of PICUS is that it is good determinate fresh market tomato hybrid resistance to Tomato Spotted Wilt Virus with elongated fruit shape. It is vigorous and allows for healthy growth in field conditions as found in the Eastern U.S.A.

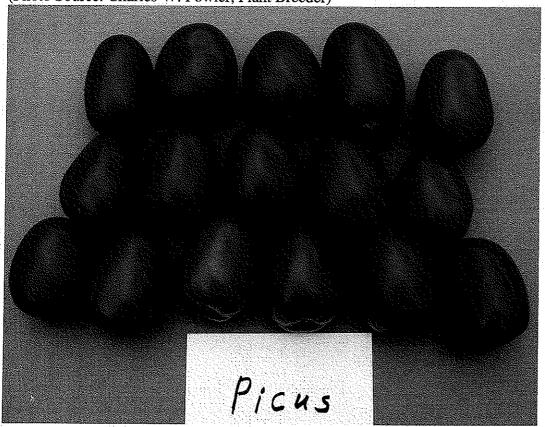
To our knowledge, the variety most closely resembling the candidate variety is FLORIDA 7655. The characteristic that most readily distinguishes the two varieties, but may not be limited to, include:

• Fruit Shape: the fruit of PICUS are elongated, cylindrical and blocky, and the blossom end is slightly tapered and flattened, whereas the fruit of FLORIDA 7655 are more elongated and cylindrical, and the ends are more tapered and slightly pointed (See Photos 1 and 2).

Photo 1:

The fruit of PICUS have a shape that is elongated, cylindrical and blocky, and the blossom end is slightly tapered and flattened.

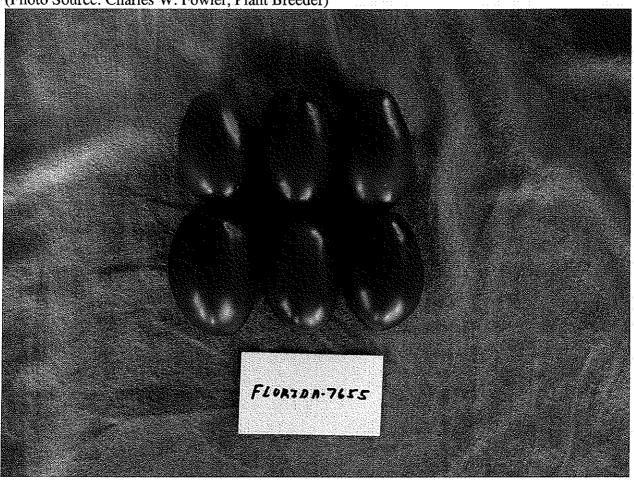




# Photo 2:

The fruit of FLORIDA 7655 have a shape that is elongated and cylindrical, and the ends are tapered and slightly pointed.

(Photo Source: Charles W. Fowler, Plant Breeder)



Chemistry and Composition of full ripe fruits: PICUS has a lower titratable acidity (0.306 vs. 0.354), lower total solids (4.34 vs. 5.17) and lower 'BRIX' percentage (3.76% vs. 4.36%) than FLORIDA 7655.

## Report Generated for

Wayne Fowler Seminis Vegetable Seeds Naples, FL

## **Report Generated By**

Seminis Vegetable Quality Research Lab 37437 State Highway 16 Woodland, California, 95695

Lab Request ID/Name:

V000000046

WF1081

Lab Set ID: Notebook:

V00000050

Date of Receipt:

11/06/07

#200800039

Date Requested:

Sample Type:

Tomato - Fresh Market

# Results relate only to those items being tested.

Rep	N 1	itric Acid v (Anh)	Total	Solids %	В	rix %	pH			
:	Picus	Florida 7655	Picus	Florida 7655	Picus	Florida 7655	Picus	Florida 7655		
R1	0.3008	0.38656	4.32	5.42	3.80	4.50	4:30	4.29		
R2	0.31296	0.37504	4.31	5.31	3.76	4.52	4.31	4.29		
R3	0.28672	0.3424	4.18	5.03	3.65	4.21	4.34	4.32		
R4	0.30016	0.30656	4.35	5.11	3.79	4.34	4.38	4.36		
R5	0.28416	0.3328	4.35	5.02	3.66	4.36	4.31	4.41		
R6	0.2976	0.36352	4.27	4.90	3.80	4.10	4.32	4.30		
R7	0.3488	0.37376	4.38	5.41	3.79	4.48	4.29	4.28		
R8	0.32832		4.55	·	3.87	:	4.35			
R9	0.2912		4.34		3.68		4.35			
AVG	0.306	0.354	4.34	5.17	3.76	4.36	4.33	4.32		

Refer to Table 1 for raw lab data.

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WF1081

V000000046 V000000050 11/06/07

Lab Request ID/Name: Lab Set ID: Date of Receipt:

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	Sample ID_1		V0000007997	V0000007999	V00000008000	V0000008001	V0000008002	V0000007994	V0000007995	V0000007996	VOCUCIONAGIO	Vonnonnana	Voccoopage	V0000008010	V0000008011	V0000008003	V0000008004	V0000008005		V0000008851	V0000008852	V0000008848	V0000008849	V0000008850	V0000008855	V0000008856		V0000008860	V0000008861	V0000008862	V0000008857	V0000008858	V0000008859	V0000008853	V0000008854
	SPR ID_1		V000000116368	V000000116342	V000000116369	V000000116338	V000000116339	V000000116367	V000000116335	V000000116336	V000000116347	V00000116348	V000000116372	V000000116350	V000000116351	V000000116370	V000000116344	V000000116345		V000000116374	V000000116361	V000000116373	V000000116358	V000000116359	V000000116376	V000000116363		V000000116378	V000000116365	V000000116366	V000000116377	V000000116355	V000000116356	V000000116375	V000000116353
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Total	Organic Acid Estimate micro	moles H+/gram	25.6 24.65	24,39	26.03	24.14	25.43	27.67	26.15	29.05	24.58	22.75	23.67	21.37	23.32	27.38	26,38	23.13		30.92	29.66	27.3	24.92	27.6	28.95	28.97		23.09	22.81	21.98	21.86	24.29	23.01	32.44	27.32
i		H+/100g	5.35 4.99	4.93	5.49	4.96	5.49	5.92	5.54	6.3	4.89	4.48	4.69	4.44	4.65	5.45	5.13	4.55		6.04	5.86	5.35	4.79	5.2	5.68	5.84		4.6	4.55	4.43	4.21	4.81	4.59	6.56	5.48
	TA7 milli moles H+/100g		4.4303	4.3964	4.927	4.4317	4.9371	5.3627	5.0076	5./4/8	4.2965	3.9069	4.0608	3.8225	4.0747	4.823	4.5016	3.9613		5.3114	5.1369	4.6851	4.1942	4.5077	5.0138	5.142		3.9079	3.8247	3.7046	3.5047	4.1645	3.8073	5.7664	4.797
	%TA Citric Acid Equiv (Anh)	0,00	0.31936	0.31552	0.35136	0.31744	0.35136	0.37888	0.35456	0.4032 0.3008	0.31296	0.28672	0,30016	0.28416	0.2976	0.3488	0.32832	0.2912		0.38656	0.37504	0.3424	0.30656	0.3328	0.36352	0.37376		0.2944	0.2912	0.28352	0.26944	0.30784	0.29376	0.41984	0.35072
	팚	Т	4.24 4.24	4.24	4.19	4.24	4.13	4.13	را د ان	4.U8	4.31	4.34	4.38	4.31	4.32	4.29	4.35	4.35		4.29	4.29	4.32	4.36	4.41	4.30	4.28		4.43	4.44	4.42	4.49	4.37	4.46	4.26	4.31
	Brix %	2 C	3.41	3.64	3.80	3.68	3.81	3.55	90.0	3.94 9.80	3.76	3.65	3.79	3.66	3.80	3.79	3.87	3.68		4.50	4.52	4.21	4.34	4.36	4.10	4.48		3.82	3.72	3.86	3.86	3.91	3.81	4.27	3.93
	Total Solids %	20.0	4.20	4.34	4.50	4.37	4.53	4.18	4.43	4.70	4.31	4.18	4.35	4.35	4.27	4.38	4.55	4.34		5.45	5.31	5.03	5.1	5.05	4.90	5.41		4.25	4.33	4.45	4.64	4.56	4.56	5.26	4.70
	Avg Weight Grams							: 1: : :{										:	7.L							•	9								
	Unit Weight Grams	75 0	70.7	714	83.1	88.5	84.6	83.0	4.07	1.9.1	108.9	120.5	119.2	120.9	108.8	6.66	121.5	115.2	1020.4	85.3	81.7	82.9	78.3	87.4	82.3	76.1	5/3.9	83.4	85.4	89.5	81.3	9.98	6.97	98.3	76.0
	Sample Size Count	٥	은	10	9	<u>0</u> ;	9	: 0 1	- c	2 6	8	8	10	6	6	42	15	Z [	Q (	ဖ	7	<del></del>	42	<b>ග</b>	7	ω (	္ဌ :	<del>-</del>	9	တ	7	7	∞	7	œ
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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**EXHIBIT C** 

**OBJECTIVE DESCRIPTION OF VARIETY** 

	TOWATO (Lycopersicon escu	rientum (viiii.)						
NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME						
Seminis Vegetable Seeds In		Florida 7655						
ADDRESS (Street and No. or RD No., City, State, Zip Code, at		salatencialis come l'interescioni da marche de la						
2700 Camino del So		PVPO NUMBER						
Oxnard, CA 93030	)	#200800039						
Choose responses for the following characters when	nich best fit your variety. Complete this form as	s fully as possible for best characterization of the variety. When a						
single quantitative value is requested (e.g., fruit w	eight), your answer should be the mean of an	adequate-sized, unbiased sample of plants. Use leading zeros						
		t one well-known standard check variety of the same type (see list						
		rm should be described from plants grown under normal conditions						
of culture for the variety. Indicated by check whet	her trial data are from <del>green hou</del> se of field	planting. Trials d <del>irect-seede</del> dor transplanted staked						
orunstaked Give locations and dates of see								
Titton, (TA: Trains	planting date 10-A	ug-07.						
AND	<u> </u>	<u>U</u>						
COMPARISONS SHOULD BE MADE TO ONE OF THE CHECK IN BOXES WHERE IDENTITY OF C	R MORE CHECK VARIETIES IN THE FOLLO HECK IS REQUESTED.	WING LIST. IF AT ALL POSSIBLE, ENTER THE NUMBER OF						
1 = Ace 55 VF 7 = Homestead 2	4 13 = Red Rock 19	= VF 134						
2 = Campbell 37 8 = Marglobe 3 = Chico III 9 = Murietta	14 = Roma VF 20	= US 28						
4 = Flora Dada 10 = New Yorker		= VF 145 B 7879 = Other (Specify)						
5 = Florida MH-1 11 = Ohio MR-13	17 = Tropic	- Other (Opeciny)						
6 = Heinz 1350 12 = Red Cherry	Large							
1. SEEDLING								
Anthocyanin in hypocotyl of 2 – 15 cm seed	fling: 1 = Absent 2 = Present	Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact						
2. MATURE PLANT (at maximum vegetative deve	lopment)							
<u>085</u> cm Height								
2 Growth: 1 = Indeterminate 2 = Determinate								
2 Form: 1 = Lax, open 2 = Normal 3 = Compact 4 = Dwarf 5 = Brachytic								
2 Size of canopy (compared to others of similar								
A Habit: 1 = Sprawling (decumbent) 2 = Sem	ii-erect 3 = Erect ('Dwarf Champion')							

	STEM
6	$\frac{2}{3}$ Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireball') 2 = Intermediate ('Westover') 3 = Profuse ('UC 82')
_	Eranching at cotyledonary or first leafy node: 1 = Present 2 = Absent
	$\frac{3}{2}$ No. of nodes between first inflorescence: 1 = 1-4 2 = 4-7 3 = 7-10 4 = 10 or more
_	No. of nodes between early (1st - 2nd, 2nd - 3rd) inflorescences.
, <u>1</u>	2 Pubescence on younger stems: 1 = Smooth (no long hairs) 2 = Sparsely hairy (scattered long hairs) 3 = Moderately hairy 4 = Densely hairy or wooly
<i>1</i> 1	.EAF (mature leaf beneath the 3 <sup>rd</sup> inflorescence)
7. L	Type: 1 = Tomato 2 = Potato ('Trip-L-Crop')  Morphology (choose illustration at the end of this form that is most similar)
است در در	Margins of major leaflets: 1 = Nearly entire 2 = Shallowly toothed or scalloped 3 = Deeply toothed or cut, sps. Toward base
<u>,</u>	Marginal rolling or wiltiness: 1 = Absent 2 = Slight 3 = Moderate 4 = Strong
2	<u> </u>
<u>~</u>	Surface of major leaflets: 1 = Smooth 2 = Rugose (bumpy or veiny)
<u> </u>	
	Pubescence: 1 = Smooth (no long hairs) 2 = Normal 3 = Hirsute 4 = Wooly
5. IN	NFLORESCENCE (make observations on 3 <sup>rd</sup> inflorescence)
1	Type: 1 = Simple 2 = Forked (2 major axes) 3 = Compound (much branched)
	Number of flowers in inflorescence. Average
4	Leafy or "running" inflorescences: 1 = Absent 2 = Occasional 3 = Frequent
6. FI	LOWER
1	_ Calyx: 1 = Normal, lobes awl-shaped 2 = Macrocalyx, lobes large, leaflike 3 = Fleshy
1	Calyx-fobes: 1 = Shorter the corolla 2 = Approx. equalling corolla 3 = Distinctly longer than corolla
$\overline{I}$	Corolla color: 1 = Yellow 2 = Old gold 3 = White or tan
$\overline{a}$	_ Style pubescence: 1 = Absent 2 = Sparse 3 = Dense
<u> </u>	_ Anthers: 1 = All fused into tube 2 = Separateing into 2 or more groups at anthesis
Ī	Fasciation (1 <sup>st</sup> flower of 2 <sup>nd</sup> or 3 <sup>rd</sup> inflorescence): 1 = Absent 2 = Occasionally present 3 = Frequently present
	RUIT (3 <sup>rd</sup> fruit of 3nd or 3 <sup>rd</sup> cluster) For the first 5 characters below, match your variety with the most similar illustration on pages at the end of this form.
	RUIT (3 <sup>rd</sup> fruit of 3nd or 3 <sup>rd</sup> cluster) For the first 5 characters below, match your variety with the most similar illustration on pages at the end of this form.  Typical fruit shape  Typical fruit shape  Typical fruit shape
	Typical fruit shape  1 Shape of transverse section 2 Shape of stem end 3 Shape of pistil scar
	Typical fruit shape  1 Shape of transverse section 2 Shape of stem end 3 Shape of pistil scar
	Typical fruit shape  1 Shape of transverse section 2 Shape of stem end 3 Shape of pistil scar  Abscission layer: 1 = Present (pedicellate) 2 = Absent (jointless)
	Typical fruit shape    Shape of transverse section   Shape of stem end   Shape of blossom end   Shape of pistil scar   Abscission layer: 1 = Present (pedicellate)   2 = Absent (jointless)   At calyx attachment   MM length of dedicel (from joint to calyx attachment)   MM length of mature fruit (stem axis)   MM length, check var. no.   MM length of mature fruit (stem axis)   MM length, check var. no.   MM length of mature fruit (stem axis)   MM length, check var. no.   MM length of mature fruit (stem axis)   MM length of
	Typical fruit shape    Shape of transverse section   Shape of stem end   Shape of blossom end   Shape of pistil scar   Abscission layer: 1 = Present (pedicellate)   2 = Absent (jointless)   At calyx attachment
	Typical fruit shape    Shape of transverse section   Shape of stem end   Shape of blossom end   Shape of pistil scar   Abscission layer: 1 = Present (pedicellate)   2 = Absent (jointless)   At calyx attachment
	Typical fruit shape    Shape of transverse section   Shape of stem end   Shape of blossom end   Shape of pistil scar   Abscission layer: 1 = Present (pedicellate)   2 = Absent (jointless)   At calyx attachment
	Typical fruit shape    1
	Typical fruit shape    Shape of transverse section   Shape of stem end   Shape of blossom end   Shape of pistil scar   Abscission layer: 1 = Present (pedicellate)   2 = Absent (jointless)   Abscission layer: 1 = At pedicel joint   2 = At calyx attachment   MM length of dedicel (from joint to calyx attachment)   MM length of mature fruit (stem axis)   MM length, check var. no.   MM diameter of fruit at widest point   MM diameter of fruit at wi

7.	FRU	T (continued)								
i	<u> </u>	Shoulder color if different from base: 1 = Dark green 2 = Grey green 3 = Yellow green								
	<u>5</u>	ruit color, full-ripe: 1 = White 2 = Yellow 3 = Orange 4 = Plnk 5 = Red 6 = Brownish 7 = Greenish 8 = Other (specify)								
		Flesh color, full-ripe: 1 = Yellow 2 = Pink 3 = Red/Crimson 4 = Orange 5 = Other (specify)								
	<u>i</u>	Flesh color: 1 = Uniform 2 = With lighter and darker areas in walls								
	<u>3</u>	ocular gel color of table-ripe fruit: 1 = Green 2 ≈ Yellow 3 = Red								
		Ripening: 1 = Blossom-to-stem end 2 = Uniform (no information)								
	1	Ripening: 1 = Inside out 2 = Uniformly 3 = Outside in								
	Ĺ	Stem scar size: 1 = Small ('Roma') 2 = Medium ('Rutgers') 3 = Large								
	<u>2</u>	Core: 1 ≈ Coreless (absent or smaller than 6x6 MM) 2 = Present								
	<u>2</u>	Epidermis color: 1 = Colorless 2 = Yellow								
_	<u>1</u>	Epidermis: 1 = Normal 2 = Easy-peel								
	<u>2</u>	pidermis texture: 1 = Tender 2 = Average 3 = Tough								
	<u>2</u>	nickness of pericarp (medium) 2 Thickness of pericarp. Check var. no. 22								
-		Thickness of pericarp. Check var. no. 22  Thickness of pericarp. Check var. no. 22  PER COMES POWDING E SUCT 23, 2008 LINC 9-27-2008  Inthocyanin in hypocotyl of 2 – 15 mc seedling: 1 = Absent 2 = Present L Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact								
. F	RESI	TANCE TO FRUIT DISORDER								
	0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Symptom in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible									
	NO the	E If claim of novelty is based wholly or in substantial part upon resistance, trial data should be appended. These should specify the method of testing, eaction of the applicatoni variety, and reaction of well-known check varieties grown in the trial (identified by name).								
_(	<u>)</u> e	ossom end rot Catface Fruit pox Zippering								
_	<u>()</u> e	otchy ripening $\underline{O}$ Cracking, concentric $\underline{O}$ Gold fleck $\underline{O}$ Other (specify) $\underline{N/A}$								
_(	<u>O</u> e	resting $\underline{O}$ Cracking, radial $\underline{O}$ Graywall								

#### 9. DISEASE AND PEST REACTION

0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible

**NOTE** If claim of novelty is based wholly or in substantial part upon disease resistance, trial data should be appended. These should specify the method of testing, the reaction of the application variety, and reaction of well-known check varieties grown in the trial (identified by name).

Viral Diseases:	
Cucumber mosaic O Tobacco mosaic, Ra	ce 0 Tobacco mosaic, Race2²
O Curly top O Tobacco mosaic, Ra	ce 1 / Tomato spotted wilt
$\underline{\mathcal{O}}$ Potato-Y virus $\underline{\mathcal{O}}$ Tobacco mosaic, Ra	ce 2 <u>O</u> Tomato yellows
	O Gold fleck
Other virus (specify)/A	
1	
Bacterial Diseases:	
<u>U</u> Bacterial canker (Corynebacterium michiganense)	O Bacterial spot (Xanthomonas vesicatorium)
<u>O</u> Bacterial soft rot ( <i>Erwinia corotovora</i> )	D Bacterial wilt (Pseudomonas solanacearum)
<u>U</u> Bacterial speck ( <i>Pseudomonas tomato</i> )	Other bacterial disease (specify)
Fungal Diseases:	
	D Leaf mold, Race 1 (Cladosporium fulvum)
D Brown root rot or corky root (Pyrenochaeta lycopersici)	
O Collar rot or stem canker ( <i>Alternaria solani</i> )	D Leaf mold, Race 3 (Cladosporium fulvum)
O Early blight defoliation (Alternaria solani)	
Fusarium wilt, Race 1 (F. oxysporum f. lycopersici)	Nailhead spot (Alternaria tomato)
Pusarium wilt, Race 2 (F. oxysporum f. lycopersici)	O Seporia leafspot (S. lycopersici)
O Gray leaf spot (Stemphylium spp.)	O Verticillium wilt, Race 1 (V. albo-atrum)
O Late blight, Race 0 (Phytophthora infestans)	<u> </u>
D Late blight, Race 1	Other fungal disease (specify)
	, , , , , , , , , , , , , , , , , , ,
Insects and Pests:	
Colorado potato beetle ( <i>Leptinotarsa decemlineata</i> )	
<u>U</u> Southern root knot nematode ( <i>Meloidogyne incognita</i> )	O Tomato fruitworm (Heliothis zea)
O Spider mites ( <i>Tetranychus</i> spp.)	<u>∠</u> Whitefly ( <i>Trialeurodes vaporariorum</i> )
$\frac{U}{Q}$ Sugar beet army worm (Spodoptera exigual)	Other (specify) \( \mathcal{N} \setminus \frac{\psi}{2} \)
O Tobacco flea beetle (Epitrix hirtipennis)	
Pollutants:	
	Other (specify)N/A

10. CHEMISTRY AND COMPOSITION OF FULL-RIPE FRUITS Suggested test methods may be found in "Tomato Products", 5<sup>th</sup> ed., National Canners Assn. Bull. 27-L. Please specify test methods or give a reference to methods used. Fill in table below with values for the new variety and for at lease one well-known check variety of similar type grown in the same trial. Specify names or numbers of check varieties.

	Submitted Variety	Check Variety	Check Variety	Check Variety
pH	4.32			
Titratable acidity, as % citric	0.304	0.354		
Total solids (dry matter, seeds and skin removed)	4·34 5·14	5.17		
Soluble solids as °Brix	3.36%	4.36	3 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

11. PHENOLOGY Express length of developmental stages either as calendar days or as heat units (growing degree days), in degrees Celsius. If heat units are used, indicate the base temperature used in their calculatoin hear \_\_\_\_\_°C. See paper by Warnock under "References" for method. Give comparative data for at least one check variety; identify checks by name or by number from table on page 1.

	Application Variety	Check Variety	Check Variety	Check Variety
Seeding to 50% flow (1 open on 50% of plants)	25 days			
Seed to once over harvest (if applicable)	N/A			

Fruiting season: 1 = Long ('Marglobe) 2 = Medium ('Westover') 3 = Short, concentrated ('VF 145') 4 = Very concentrated ('UC 82')

Relative maturity in areas tested: 1 = Early 2 = Medium early 3 = Medium 4 = Medium late 5 = Late 6 = Variable

(If relative maturity is known to differ by location or environment, please explain on separate sheet)

12.	ADAPTATION	If more that one category applies	list all in rank order

\_\_\_\_\_ Culture: 1 = Field 2 = Greenhouse

1 - 2 - 7 Principle use(s): 1 = Home garden 2 = Fresh market 3 = Whole-pack canning 4 = Concentrated products

5 = Other (specify)

Machine harvest: 1 = Not adapted 2 = Adapted

4 - - Regions to which adaptation has been demonstrated:

1 = Northeast

2 = Mid Atlantic

2 = Mid Atlantic

3 ≃ Southeast

4 = Florida

5 = Great Plains

6 = South-central

7 = Intermountain West

8 = Northwest

. .

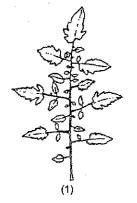
9 = California: Sacramento and Upper San Joaquin Valley

10 = California: Coastal Areas

11 = California: Southern San Joaquin Valley & deserts

### 4. LEAF

## Morphology:







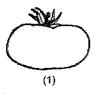
ILLUSTRATIONS OF TOMATO LEAF AND FRUIT CHARACTERISTICS



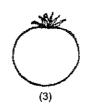


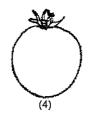
7. FRUIT

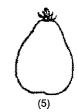
Typical fruit shape:

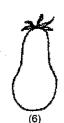




















Shape of transverse section:







2 = Flattened



3 = Angular

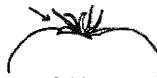


4 = Îrregular

Shape of stem end:

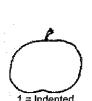


1 = Flat



2 = Indented

Shape of blossom end:









Shape of pistil scar:









3 = Nippled

2 = Stellate

#### REFERENCES

- Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition.
- Ware, G.W. & J.P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. Chapter 30, pp. 451-473, "Tomatoes".
- Warnock, S.J. 1978. Using Tomato Heat Units. Leaflet No. 6, Campbell Institue for Agricultural Research, Camden, NJ. 10 p.
- Webb, R.E., T.H. Barksdale, & A.K. Stoner, 1973. "Tomatoes", pp. 344-361, in: Nelson, R.R. (Ed.), Breeding Plants for Disease Resistance. Pennsylvania State University Press, University Park.
- Young, P.A. & J.W. MacArthur, 1947. Horticultural characters of tomatoes. Bull. Texas Agric. Exper. Station No. 698..

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	ORM APPROVED - OMB No. 0561-005						
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).							
EXHIBIT E	confidential until the certificate is issue	ed (7 U.S.C. 2426).						
STATEMENT OF THE BASIS OF OWNERSHIP  1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME						
Seminis Vegetable Seeds, Inc.	XP 01429864	PICUS						
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)						
2700 Camino del Sol	(805) 647-1572	(805) 918-2545						
Oxnard, California 93030	7. PVPO NUMBER							
	#20080	0039						
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. I <b>f no, please expla</b> i	in. YES NO						
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of co	ountry. YES NO						
10. Is the applicant the original owner?	NO If no, please answer one	of the following:						
a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?  YES  NO  If no, give name of country								
b. If the original rights to variety were owned by a company(ies),  YES  11. Additional explanation on ownership (Trace ownership from origin	NO If no, give name of country							
The variety named in this application was developed by the Semin agreement between the employee and Seminis Vegetable Seeds, It employee are assigned to the Company. No rights to such an investigation	nis Vegetable Seeds, Inc., employee (br nc., all rights to any invention, discover	eeder) identified below. By						
Employee (Breeder): Charles W. Fowler								
Site Location: Naples, FL								
PLEASE NOTE:								
Plant variety protection can only be afforded to the owners (not license	_							
<ol> <li>If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of</li> </ol>	erson must be a U.S. national, national of the U.S. for the same genus and specie	f a UPOV member country, or es.						
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a co- genus and species.</li></ol>	ed the original breeder(s), the company ountry which affords similar protection to	must be U.S. based, owned by on ationals of the U.S. for the same						
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must me	eet one of the above criteria.						
The original breeder/owner may be the individual or company who dired Act for definitions.	ected the final breeding. See Section 41	(a)(2) of the Plant Variety Protection						
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, a control number. The valid OMB control number for this information collection is 0581-0055. Including the time for reviewing the instructions, searching existing data sources, gathering an	The time required to complete this information collecti	on is actimated to average 0.4 hour per mesones						
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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**EXHIBIT F** DECLARATION REGARDING DEPOSIT

DECLARATION REGARDING DEPOSIT			
	of owner (s) inis Vegetable Seeds, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)  2700 Camino del Sol  Oxnard, CA 93030	TEMPORARY OR EXPERIMENTAL DESIGNATION XP 01429864
·			VARIETY NAME PICUS
4	of owner representative (s)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)  2700 Camino del Sol 37437 State Hwy 16  Oxnard, CA 93030 Woodland, CA 95695	PVPO NUMBER # 2 0 0 8 0 0 0 3 9

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

aul & Miller